

042190_replacement_sequence_listing.txt

SEQUENCE LISTING

<110> KUROKAWA, Masato
NAKAMURA, Hiroaki

<120> wound dressing for accelerating epidermal regeneration

<130> 292US

<160> 51

<170> PatentIn version 3.1

<210> 1

<211> 3

<212> PRT

<213> Homo sapiens

<400> 1

Arg Gly Asp
1

<210> 2

<211> 5

<212> PRT

<213> Homo sapiens

<400> 2

Ile Lys Val Ala Val
1 5

<210> 3

<211> 5

<212> PRT

<213> Homo sapiens

<400> 3

Tyr Ile Gly Ser Arg
1 5

<210> 4

<211> 10

<212> PRT

<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 4

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala
1 5 10

<210> 5

<211> 40

<212> PRT

042190_replacement_sequence_listing.txt

<213> Artificial sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 5

Gly Ala
1 5 10 15

Gly Ala
20 25 30

Gly Ala Gly Ala Gly Ala Gly Ala
35 40

<210> 6

<211> 160

<212> PRT

<213> Artificial sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 6

Gly Ala
1 5 10 15

Gly Ala
20 25 30

Gly Ala
35 40 45

Gly Ala
50 55 60

Gly Ala
65 70 75 80

Gly Ala
85 90 95

Gly Ala
100 105 110

Gly Ala
115 120 125

Gly Ala
130 135 140

Gly Ala
145 150 155 160

<210> 7

<211> 12

<212> PRT

<213> Artificial sequence

042190_replacement_sequence_listing.txt

<220>
<223> auxiliary amino acid sequence (Y)

<400> 7

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
1 5 10

<210> 8
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 8

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ser Gly Ala Gly Ala
1 5 10 15

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
20 25 30

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ser
35 40 45

Gly Ala Gly Ala Gly Ser
50

<210> 9
<211> 180
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 9

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ser Gly Ala Gly Ala
1 5 10 15

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ser Gly Ala
20 25 30

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ser
35 40 45

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ser Gly Ala Gly Ala
50 55 60

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ser Gly Ala
65 70 75 80

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
85 90 95

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ser Gly Ala Gly Ala
100 105 110

042190_replacement_sequence_listing.txt

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
115 120 125

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
130 135 140

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
145 150 155 160

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
165 170 175

Gly Ala Gly Ser
180

<210> 10

<211> 12

<212> PRT

<213> Artificial sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 10

Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr
1 5 10

<210> 11

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 11

Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala
1 5 10 15

Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala
20 25 30

Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr
35 40 45

Gly Ala Gly Ala Gly Tyr
50

<210> 12

<211> 180

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

042190_replacement_sequence_listing.txt

<400> 12

Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala
1 5 10 15
Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala
20 25 30
Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Tyr
35 40 45
Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala
50 55 60
Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala
65 70 75 80
Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr
85 90 95
Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala
100 105 110
Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala
115 120 125
Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr
130 135 140
Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala
145 150 155 160
Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala
165 170 175
Gly Ala Gly Tyr
180

<210> 13

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 13

Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr
1 5 10

<210> 14

<211> 54

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 14

042190_replacement_sequence_listing.txt
Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val
1 5 10 15
Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala
20 25 30
Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr
35 40 45
Gly Ala Gly Val Gly Tyr
50

<210> 15
<211> 180
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 15

Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val
1 5 10 15
Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala
20 25 30
Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr
35 40 45
Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val
50 55 60
Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala
65 70 75 80
Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr
85 90 95
Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val
100 105 110
Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala
115 120 125
Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr
130 135 140
Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val
145 150 155 160
Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala
165 170 175

Gly Val Gly Tyr
180

<210> 16
<211> 12

042190_replacement_sequence_listing.txt
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 16

Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val
1 5 10

<210> 17
<211> 54
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 17

Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr
1 5 10 15

Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala
20 25 30

Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val
35 40 45

Gly Ala Gly Tyr Gly Val
50

<210> 18
<211> 180
<212> PRT
<213> Artificial sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 18

Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr
1 5 10 15

Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala
20 25 30

Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val
35 40 45

Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr
50 55 60

Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala
65 70 75 80

Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val
85 90 95

042190_replacement_sequence_listing.txt
Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr
100 105 110
Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala
115 120 125
Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val
130 135 140
Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr
145 150 155 160
Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala
165 170 175

Gly Tyr Gly Val
180

<210> 19
<211> 48
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 19

Asp Gly Gly Ala Ala Ala Ala Ala Gly Gly Ala Asp Gly Gly Ala
1 5 10 15
Ala Ala Ala Ala Ala Gly Gly Ala Asp Gly Gly Ala Ala Ala Ala
20 25 30
Ala Gly Gly Ala Asp Gly Gly Ala Ala Ala Ala Ala Gly Gly Ala
35 40 45

<210> 20
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 20

Asp Gly Gly Ala Gly
1 5 10 15

Gly Ala

<210> 21
<211> 72
<212> PRT
<213> Artificial Sequence

042190_replacement_sequence_listing.txt

<220>
<223> auxiliary amino acid sequence (Y)
<400> 21
Asp Gly Gly Ala Gly
1 5 10 15
Gly Ala Asp Gly Gly Ala
20 25 30
Ala Gly Gly Ala Asp Gly Gly Ala Ala Ala Ala Ala Ala Ala Ala
35 40 45
Ala Ala Ala Gly Gly Ala Asp Gly Gly Ala Ala Ala Ala Ala Ala
50 55 60
Ala Ala Ala Ala Ala Gly Gly Ala
65 70

<210> 22
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 22

Gly Val Pro Gly Val Gly Val Pro Gly Val
1 5 10

<210> 23
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 23

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
1 5 10 15
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
20 25 30
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
35 40 45
Gly Val
50

<210> 24
<211> 200
<212> PRT
<213> Artificial Sequence

042190_replacement_sequence_listing.txt

<220>
<223> auxiliary amino acid sequence (Y)

<400> 24

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
1 5 10 15

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
20 25 30

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
35 40 45

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
50 55 60

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
65 70 75 80

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
85 90 95

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
100 105 110

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
115 120 125

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
130 135 140

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
145 150 155 160

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
165 170 175

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
180 185 190

Pro Gly Val Gly Val Pro Gly Val
195 200

<210> 25
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 25

Gly Gly Gly Gly Gly Gly Gly Gly Gly
1 5 10

<210> 26
<211> 40
<212> PRT
<213> Artificial Sequence

042190_replacement_sequence_listing.txt

<220>
<223> auxiliary amino acid sequence (Y)

<400> 26
Gly
1 5 10 15
Gly
20 25 30
Gly Gly Gly Gly Gly Gly Gly
35 40

<210> 27
<211> 160
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 27
Gly
1 5 10 15
Gly
20 25 30
Gly
35 40 45
Gly
50 55 60
Gly
65 70 75 80
Gly
85 90 95
Gly
100 105 110
Gly
115 120 125
Gly
130 135 140
Gly
145 150 155 160

<210> 28
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

042190_replacement_sequence_listing.txt
<223> auxiliary amino acid sequence (Y)

<400> 28

Ala
1 5 10

<210> 29

<211> 40

<212> PRT

<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 29

Ala
1 5 10 15

Ala
20 25 30

Ala Ala Ala Ala Ala Ala Ala
35 40

<210> 30

<211> 160

<212> PRT

<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 30

Ala
1 5 10 15

Ala
20 25 30

Ala
35 40 45

Ala
50 55 60

Ala
65 70 75 80

Ala
85 90 95

Ala
100 105 110

Ala
115 120 125

Ala
Page 12

042190_replacement_sequence_listing.txt

130

135

140

Ala
145 150 155 160

<210> 31

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 31

Gly Gly Ala Gly Gly Ala Gly Gly Ala
1 5

<210> 32

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 32

Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly
1 5 10 15

Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly
20 25 30

Ala Gly Gly Ala
35

<210> 33

<211> 180

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 33

Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly
1 5 10 15

Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly
20 25 30

Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala
35 40 45

Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly
50 55 60

Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly
Page 13

042190_replacement_sequence_listing.txt

65	70	75	80											
Ala	Gly	Gly	Ala											
			85		90				95					
Gly	Gly	Ala	Gly											
		100			105				110					
Gly	Ala	Gly	Gly											
	115			120				125						
Ala	Gly	Gly	Ala											
	130			135				140						
Gly	Gly	Ala	Gly											
	145			150			155				160			
Gly	Ala	Gly	Gly											
	165			170			175							
Ala	Gly	Gly	Ala											
	180													

<210> 34
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 34

Gly Val Gly Val Pro Gly Val Gly Val Pro
1 5 10

<210> 35
<211> 50
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 35

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
1 5 10 15
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
20 25 30
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
35 40 45
Val Pro
50

<210> 36

042190_replacement_sequence_listing.txt

<211> 200

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 36

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
20 25 30

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
35 40 45

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
50 55 60

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
65 70 75 80

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
85 90 95

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
100 105 110

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
115 120 125

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
130 135 140

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
145 150 155 160

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
165 170 175

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
180 185 190

Gly Val Pro Gly Val Gly Val Pro
195 200

<210> 37

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 37

Gly Pro Pro Gly Pro Pro Gly Pro Pro
1 5

042190_replacement_sequence_listing.txt

<210> 38
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 38

Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly
1 5 10 15
Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
20 25 30
Pro Gly Pro Pro
35

<210> 39
<211> 180
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 39

Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly
1 5 10 15
Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
20 25 30
Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro
35 40 45
Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly
50 55 60
Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
65 70 75 80
Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro
85 90 95
Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly
100 105 110
Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
115 120 125
Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro
130 135 140
Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly
145 150 155 160
Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
165 170 175

042190_replacement_sequence_listing.txt

Pro Gly Pro Pro
180

<210> 40
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 40

Gly Ala Gln Gly Pro Ala Gly Pro Gly
1 5

<210> 41
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 41

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly
1 5 10 15

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro
20 25 30

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly
35 40 45

<210> 42
<211> 180
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 42

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly
1 5 10 15

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro
20 25 30

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln
35 40 45

Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly
50 55 60

Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro
65 70 75 80

042190_replacement_sequence_listing.txt
Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala
85 90 95
Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly
100 105 110
Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala
115 120 125
Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly
130 135 140
Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly
145 150 155 160
Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro
165 170 175
Ala Gly Pro Gly
180

<210> 43
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 43

Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln
1 5 10 15

<210> 44
<211> 60
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 44

Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly
1 5 10 15

Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala
20 25 30

Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro
35 40 45

Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln
50 55 60

<210> 45
<211> 180
<212> PRT
<213> Artificial Sequence

042190_replacement_sequence_listing.txt

<220>
<223> auxiliary amino acid sequence (Y)

<400> 45
Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly
1 5 10 15
Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala
20 25 30
Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro
35 40 45
Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly
50 55 60
Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala
65 70 75 80
Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro
85 90 95
Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly
100 105 110
Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly Ser
115 120 125
Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly Ser Gln
130 135 140
Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly
145 150 155 160
Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala
165 170 175
Pro Gly Leu Gln
180

<210> 46
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 46

Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro
1 5 10 15

<210> 47
<211> 60
<212> PRT
<213> Artificial Sequence

<220>

042190_replacement_sequence_listing.txt
<223> auxiliary amino acid sequence (Y)

<400> 47

Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly
1 5 10 15
Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala
20 25 30
Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro
35 40 45
Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro
50 55 60

<210> 48

<211> 180

<212> PRT

<213> Artificial sequence

<220>

<223> auxiliary amino acid sequence (Y)

<400> 48

Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly
1 5 10 15
Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala
20 25 30
Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro
35 40 45
Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly
50 55 60
Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr
65 70 75 80
Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro
85 90 95
Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly
100 105 110
Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly Pro
115 120 125
Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly Pro Gln
130 135 140
Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly
145 150 155 160
Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu
165 170 175
Pro Gly Ser Pro
180

042190_replacement_sequence_listing.txt

<210> 49
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> auxiliary amino acid sequence (Y)

<400> 49

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Gly Ala Gly Ala
1 5 10 15

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
20 25 30

<210> 50
<211> 980
<212> PRT
<213> Artificial Sequence

<220>
<223> ProNectin F

<400> 50

Met Asp Pro Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val
1 5 10 15

Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Asp Pro
20 25 30

Met Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
35 40 45

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
50 55 60

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Ala Val Thr Gly Arg
65 70 75 80

Gly Asp Ser Pro Ala Ser Ala Ala Gly Tyr Gly Ala Gly Ala Gly Ser
85 90 95

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
100 105 110

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
115 120 125

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
130 135 140

042190_replacement_sequence_listing.txt

Gly Ala Ala Val Thr Gly Arg Gly Asp Ser Pro Ala Ser Ala Ala Gly
145 150 155 160

Tyr Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
165 170 175

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
180 185 190

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
195 200 205

Ser Gly Ala Gly Ala Gly Ser Gly Ala Ala Val Thr Gly Arg Gly Asp
210 215 220

Ser Pro Ala Ser Ala Ala Gly Tyr Gly Ala Gly Ala Gly Ser Gly Ala
225 230 235 240

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
245 250 255

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ser Gly Ala Gly Ala Gly Ala
260 265 270

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
275 280 285

Ala Val Thr Gly Arg Gly Asp Ser Pro Ala Ser Ala Ala Gly Tyr Gly
290 295 300

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
305 310 315 320

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ser Gly Ala Gly
325 330 335

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
340 345 350

Ala Gly Ala Gly Ser Gly Ala Ala Val Thr Gly Arg Gly Asp Ser Pro
355 360 365

Ala Ser Ala Ala Gly Tyr Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
370 375 380

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
Page 22

385

042190_replacement_sequence_listing.txt
390 395 400

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
405 410 415

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Ala Val
420 425 430

Thr Gly Arg Gly Asp Ser Pro Ala Ser Ala Ala Gly Tyr Gly Ala Gly
435 440 445

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
450 455 460

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
465 470 475 480

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
485 490 495

Ala Gly Ser Gly Ala Ala Val Thr Gly Arg Gly Asp Ser Pro Ala Ser
500 505 510

Ala Ala Gly Tyr Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
515 520 525

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
530 535 540

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ser Gly Ala Gly
545 550 555 560

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Ala Val Thr Gly
565 570 575

Arg Gly Asp Ser Pro Ala Ser Ala Ala Gly Tyr Gly Ala Gly Ala Gly
580 585 590

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
595 600 605

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ser Gly
610 615 620

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
625 630 635 640

042190_replacement_sequence_listing.txt

Ser Gly Ala Ala Val Thr Gly Arg Gly Asp Ser Pro Ala Ser Ala Ala
645 650 655

Gly Tyr Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
660 665 670

Gly Ala Gly Ser Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
675 680 685

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
690 695 700

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Ala Val Thr Gly Arg Gly
705 710 715 720

Asp Ser Pro Ala Ser Ala Ala Gly Tyr Gly Ala Gly Ala Gly Ser Gly
725 730 735

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
740 745 750

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
755 760 765

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
770 775 780

Ala Ala Val Thr Gly Arg Gly Asp Ser Pro Ala Ser Ala Ala Gly Tyr
785 790 795 800

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ser Gly Ala Gly Ala Gly Ala
805 810 815

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
820 825 830

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
835 840 845

Gly Ala Gly Ala Gly Ser Gly Ala Ala Val Thr Gly Arg Gly Asp Ser
850 855 860

Pro Ala Ser Ala Ala Gly Tyr Gly Ala Gly Ala Gly Ser Gly Ala Gly
865 870 875 880

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
885 890 895

042190_replacement_sequence_listing.txt

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
900 905 910

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Ala
915 920 925

Val Thr Gly Arg Gly Asp Ser Pro Ala Ser Ala Ala Gly Tyr Gly Ala
930 935 940

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Met Asp
945 950 955 960

Pro Gly Arg Tyr Gln Leu Ser Ala Gly Arg Tyr His Tyr Gln Leu Val
965 970 975

Trp Cys Gln Lys
980

<210> 51
<211> 1019
<212> PRT
<213> Artificial Sequence

<220>
<223> ProNectin L

<400> 51

Met Asp Pro Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val
1 5 10 15

Thr Gln Leu Asn Arg Leu Ala Ala His Pro Pro Phe Ala Ser Asp Pro
20 25 30

Met Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
35 40 45

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
50 55 60

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Ala Pro Gly Ala Ser
65 70 75 80

Ile Lys Val Ala Val Ser Ala Gly Pro Ser Ala Gly Tyr Gly Ala Gly
85 90 95

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
100 105 110

042190_replacement_sequence_listing.txt

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
115 120 125

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
130 135 140

Ala Gly Ser Gly Ala Ala Pro Gly Ala Ser Ile Lys Val Ala Val Ser
145 150 155 160

Ala Gly Pro Ser Ala Gly Tyr Gly Ala Gly Ala Gly Ser Gly Ala Gly
165 170 175

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
180 185 190

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
195 200 205

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Ala
210 215 220

Pro Gly Ala Ser Ile Lys Val Ala Val Ser Ala Gly Pro Ser Ala Gly
225 230 235 240

Tyr Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
245 250 255

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
260 265 270

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
275 280 285

Ser Gly Ala Gly Ala Gly Ser Gly Ala Ala Pro Gly Ala Ser Ile Lys
290 295 300

Val Ala Val Ser Ala Gly Pro Ser Ala Gly Tyr Gly Ala Gly Ala Gly
305 310 315 320

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
325 330 335

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
340 345 350

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
355 360 365

042190_replacement_sequence_listing.txt

Ser Gly Ala Ala Pro Gly Ala Ser Ile Lys Val Ala Val Ser Ala Gly
370 375 380

Pro Ser Ala Gly Tyr Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
385 390 395 400

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
405 410 415

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
420 425 430

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Ala Pro Gly
435 440 445

Ala Ser Ile Lys Val Ala Val Ser Ala Gly Pro Ser Ala Gly Tyr Gly
450 455 460

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
465 470 475 480

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
485 490 495

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
500 505 510

Ala Gly Ala Gly Ser Gly Ala Ala Pro Gly Ala Ser Ile Lys Val Ala
515 520 525

Val Ser Ala Gly Pro Ser Ala Gly Tyr Gly Ala Gly Ala Gly Ser Gly
530 535 540

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
545 550 555 560

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
565 570 575

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
580 585 590

Ala Ala Pro Gly Ala Ser Ile Lys Val Ala Val Ser Ala Gly Pro Ser
595 600 605

Ala Gly Tyr Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
610 615 620

042190_replacement_sequence_listing.txt

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
625 630 635 640

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
645 650 655

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Ala Pro Gly Ala Ser
660 665 670

Ile Lys Val Ala Val Ser Ala Gly Pro Ser Ala Gly Tyr Gly Ala Gly
675 680 685

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ser Gly
690 695 700

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
705 710 715 720

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
725 730 735

Ala Gly Ser Gly Ala Ala Pro Gly Ala Ser Ile Lys Val Ala Val Ser
740 745 750

Ala Gly Pro Ser Ala Gly Tyr Gly Ala Gly Ala Gly Ser Gly Ala Gly
755 760 765

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ser Gly
770 775 780

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
785 790 795 800

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Ala
805 810 815

Pro Gly Ala Ser Ile Lys Val Ala Val Ser Ala Gly Pro Ser Ala Gly
820 825 830

Tyr Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
835 840 845

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ser Gly
850 855 860

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
Page 28

865

042190_replacement_sequence_listing.txt
870 875 880

Ser Gly Ala Gly Ala Gly Ser Gly Ala Ala Pro Gly Ala Ser Ile Lys
885 890 895

Val Ala Val Ser Ala Gly Pro Ser Ala Gly Tyr Gly Ala Gly Ala Gly
900 905 910

Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly
915 920 925

Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly
930 935 940

Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
945 950 955 960

Ser Gly Ala Ala Pro Gly Ala Ser Ile Lys Val Ala Val Ser Ala Gly
965 970 975

Pro Ser Ala Gly Tyr Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly
980 985 990

Ser Gly Ala Gly Ala Met Asp Pro Gly Arg Tyr Gln Leu Ser Ala Gly
995 1000 1005

Arg Tyr His Tyr Gln Leu Val Trp Cys Gln Lys
1010 1015